

AMENDMENT

Please amend the application as follows:

Please amend the title to read as follows:

~~–Electrical Power Generation System Utilizing an Electrically Superconductive Coil–~~

In the claims

Please cancel claims 23 - 30.

Please amend claims 1, 2, 19 and 20 as follows, and add new claims 31 and 32.

1. (Amended) An electrical power generator, comprising:

a coil formed from material which is electrically superconductive at temperatures below a critical temperature;

a container surrounding said coil adapted for holding a cryogenic fluid to maintain said coil at a temperature below said critical temperature;

a prime mover mounted in said power generator so as to be rotatable in response to a gaseous stream;

a conduit for applying a gaseous stream to said prime mover from a source of pressurized gas resulting from evaporation of a cryogenic fluid; and

an electrical conductor rotatably mounted in said power generator and operatively connected to said prime mover so that rotational movement of said prime mover is transferred to said electrical conductor, said electrical conductor being mounted in a position with respect to said coil so that an electrical current flow in said coil will produce a magnetic field in the space in which said electrical conductor is rotatable, thereby generating a voltage gradient within said electrical conductor in response to rotational movement of said electrical conductor through said magnetic field.

2. (Amended) The apparatus of claim 1 wherein said source of pressurized gas is said container in which said coil is enclosed and said gaseous stream comprises gas resulting from evaporation of said cryogenic fluid.

19. A method for constructing an electrical power generator, comprising:
forming a coil from a material which is electrically superconductive at temperatures below a critical temperature;

enclosing said coil in a container adapted for holding a cryogenic fluid to maintain said coil at a temperature below said critical temperature;

mounting a prime mover in said power generator so as to be rotatable in response to a gaseous stream;

connecting a conduit for applying a gaseous stream to said prime mover from a source of pressurized gas resulting from evaporation of a cryogenic fluid; and

rotatably mounting an electrical conductor in said power generator in a position with respect to said coil so that an electrical current flow in said coil will produce a magnetic field in the space in which said electrical conductor is rotatable and operatively connecting said electrical conductor to said prime mover so that rotational movement of said prime mover is transferred to said electrical conductor, thereby generating a voltage gradient within said electrical conductor in response to rotational movement of said electrical conductor through said magnetic field.

20. The method of claim 19 wherein said source of pressurized gas is said container in which said coil is enclosed and said gaseous stream comprises gas resulting from evaporation of said cryogenic fluid.

Please add the following new claims.

31. (New) The apparatus of claim 1 wherein said source of pressurized gas is a container for cryogenic fluid other than the container in which said coil is enclosed.

32. (New) The method of claim 19 wherein said source of pressurized gas is a container for cryogenic fluid other than the container in which said coil is enclosed.

REMARKS

In the Office Action, the title was objected to. The title has been amended to be indicative of the invention.

In reference to the requirement for election of a single invention, pursuant to 35 USC 121, the election of Claim Group 1 (claims 1 - 22) is affirmed. Accordingly claims 23-30 are canceled from the application.

In response to the statement in the Office Action that the Oath or Declaration is defective because certain items were not included in the Oath or Declaration, a copy of the Declaration and the accompanying Inventor Information Sheet submitted with the patent application is attached hereto. In a telephone conversation of August 30, 2002, Examiner Karl Tamai confirmed that the Declaration and Inventor Information Sheet submitted with the application was in the file in the Patent Office. The information which the Office Action stated was missing from the Declaration is on the Inventor Information Sheet.

In the Office Action, claims 1, 3-8 and 19 were rejected. Claims 2 and 20 were objected to, but were deemed to be allowable if rewritten in independent form. The allowance of claims 9-18, 21 and 22 is noted with appreciation.

Claim 1 has now been amended to include the limitation from claim 2 that the source of pressured gas is resulting from evaporation of a cryogenic fluid. None of the cited references, either alone or in combination, teach or suggest a prime mover that is rotatable

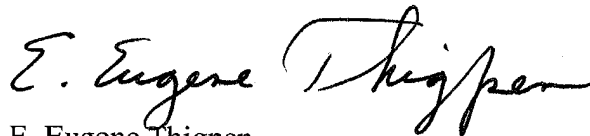
in response to a gaseous stream and a conduit for applying the gaseous stream from a source of pressurized gas resulting from evaporation of a cryogenic fluid. Accordingly claim 1 and claims dependent from claim 1 (claims 2-8 and 31) should now be allowable. The language of claim 2, which is dependent from claim 1, has been amended to add the limitation that the source of pressurized gas applied to the prime mover may be from the evaporation of cryogenic fluid in the container in which the coil is enclosed. Claim 31, also dependent from claim 1, has been added to include the limitation that the source of pressurized gas may be from a container for cryogenic fluid other than the container in which said coil is enclosed. Support for these alternate limitations is found on page 7, line 25 to page 8, line 6 of the specification.

Similarly, claim 19 has now been amended to include the limitation from claim 20 that the source of pressured gas is resulting from evaporation of a cryogenic fluid. None of the cited references, either alone or in combination, teach or suggest mounting a prime mover in a power generator so as to be rotatable in response to a gaseous stream and connecting a conduit for applying a gaseous stream to the prime mover from a source of pressurized gas resulting from evaporation of a cryogenic fluid. Accordingly claim 19 and claims dependent from claim 19 (20 and 32) should now be allowable. The language of claim 20, which is dependent from claim 19, has been amended to add the limitation that the source of pressurized gas applied to the prime mover may be from the evaporation of cryogenic fluid in the container in which the coil is enclosed. Claim 32, also dependent from claim 19, has been added to include the limitation that the source of pressurized gas may be from a container for cryogenic fluid other than the container in which said coil is enclosed. As stated previously, support for these alternate limitations is found on page 7, line 25 to page 8, line 6 of the specification.

In view of the foregoing amendments and remarks, reconsideration and allowance of the pending claims is respectfully requested. The invention as defined in the claims is

neither anticipated nor obvious in view of the cited referenced, either alone or in combination. A Notice of Allowance is respectfully requested.

Respectfully submitted,

A handwritten signature in cursive script that reads "E. Eugene Thigpen". The signature is written in black ink and is positioned above the printed name.

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